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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/065,195	09/25/2002	Raj Kumar Jain	2000P19187US	8143 AMINER		
759	08/31/2004		EXAMINER			
Siemens Intellectual Property			LE, THONG QUOC			
Technology Consulting Pte Ltd						
6th Floor			ART UNIT	PAPER NUMBER		
166 Kallang Wa	у		2818			
Singapore, 34 SINGAPORE	9249	DATE MAILED: 08/31/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

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-		Application	No.	Applicant(s)			
	10/065,195		JAIN, RAJ KUMAR	1			
Office Action S	Summary	Examiner		Art Unit			
		Thong Q. Le		2818			
The MAILING DATE of Period for Reply	of this communication app	pears on the d	over sheet with the	correspondence add	ress		
A SHORTENED STATUTO THE MAILING DATE OF TH Extensions of time may be available after SIX (6) MONTHS from the mailt If the period for reply specified above If NO period for reply is specified above Failure to reply within the set or external contents Any reply received by the Office laterned patent term adjustment. See	HIS COMMUNICATION. under the provisions of 37 CFR 1.1 ng date of this communication. is less than thirty (30) days, a repl vove, the maximum statutory period nded period for reply will, by statute than three months after the mailing	36(a). In no event y within the statuto will apply and will e e, cause the applica	however, may a reply be ti ry minimum of thirty (30) da xpire SIX (6) MONTHS from tion to become ABANDONE	mely filed ys will be considered timely. the mailing date of this cor ED (35 U.S.C. § 133).	nmunication.		
Status							
1) Responsive to commi	unication(s) filed on						
2a) ☐ This action is FINAL .		– action is nor	ı-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5) Claim(s) is/are 6) Claim(s) <u>1,4-7,11,12,</u>	n(s) is/are withdrawallowed. 14,15,20,21 and 23-31 is 19,22 and 32-35 is/are of	wn from cons /are rejected					
Application Papers							
9)☐ The specification is ob	jected to by the Examine	er.					
10) ☐ The drawing(s) filed or	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	est that any objection to the	• • •	•	• •			
Replacement drawing sl	heet(s) including the correct n is objected to by the Ex	•		·	• •		
Priority under 35 U.S.C. § 119							
2. Certified copies 3. Copies of the c	None of: of the priority document of the priority document ertified copies of the priority the International Bureau	s have been s have been rity documen u (PCT Rule	received. received in Applicat ts have been receiv 17.2(a)).	tion No red in this National S	Stage		
Attachment(s)							
1) Notice of References Cited (PTC		4) Interview Summary				
Notice of Draftsperson's Patent I Information Disclosure Statemen Paper No(s)/Mail Date			Paper No(s)/Mail D) Notice of Informal I) Other:	Patent Application (PTO-	152)		

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DETAILED ACTION

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1. Amendment filed on July 12, 2004 has been entered.

2. Claims 1-12, 14-35 are presented for examination.

Response to Amendment

3. Regarding amended claims, applicant is reminded that text is deleted must be

shown by strikethrough. If the strikethrough is not easy to use, the text must be shown

by double brackets [[]] for delete a character. Therefore, the correction of deleting for a

comma (,) in claims 21-22, applicant must using format as described above. It is new

rule. For example, [[,]]. Claim should be amended for proper format.

Some claims within status of "currently amended". However, examiner could not

find where in claim is amended. The correction is required.

Response to Arguments

4. Applicant's arguments with respect to claims 1-12, 14-35 have been considered

but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

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6. Claims 1,4-7,11-12,14-15,20-21,23-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Uchida et al. (U.S. Patent No. 6,359,813).

Regarding claims 1, 12, 23 Uchida et al. disclose a memory device (Figure 15A-B) comprising:

a memory cell array (32) having a multitude of memory cells, first and second bitlines (Column 4, lines 40-51), first and second wordlines, each of said memory cells being coupled to one of said first bitlines, one of said second bitlines, one of said first wordlines, and one of said second wordlines;

each of said memory cells being accessible through one of said first wordlines and one of first bitlines an external port (Figure 15A, 13) and being accessible through one of said second wordlines and one of said second bitlines by an internal port (Column 4, lines 53-63);

said external port being to input terminals to receive input signals in order to select one of said memory cells for an external data access (Column 4, lines 40-52);

a refresh control unit (Figure 1B, 121) generating refresh control signals to control refreshing of the memory cells through said internal port (Column 4, lines 53-62); and

a contention detection circuit (Column 4, lines 40-52), said contention detection circuit receiving a row address in response to an external read or write access through said external port and receiving a refresh address for a row of memory cells to be refreshed (Figure 1B, 121), said contention detection circuit suppressing a refresh, if said refresh address equals said row address (ABSTRACT, Column 2, lines 1-22).

Regarding claims 4-5, 6-7, 11, 14-15, 23-31,Uchida et al. disclose the external port (Figure 1A, 113) is connected to input terminals designed to receive one of an address signal (A0-An), a signal determining a read or write operation (Figure 1B, 121, READ, WRITE), a data clock signal (Figure 1A, CLK), and a device select signal (Figure 1B, 121), and a first bank of sense amplifier (134) and a column decoder (133).

Regarding claims 20-21, Uchida et al. disclose a memory device comprises a memory cell array (Figure 1B, 132), a first row decoder (Figure 1B, 121, row enable), a second row decoder (103), and refresh control circuit (123) to refresh the memory cells of a row which is activated by the second row decoder (Figure 1B).

Allowable Subject Matter

7. Claims 2-3, 8-10, 16-18, 19, 22, 32-35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 2-3, 8-10, 16-18, 19 include allowable subject matter since the prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. Uchida et al. (U.S. Patent No. 6,359,), and others, does not teach the claimed invention having an arrangement of memory cell as claims 2-3, 19, 22 disclose, and a second clock terminal to receive a reference clock signal as claims 8-10, 16-18, 32-35 disclose.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thong Q. Le Primary Examiner Art Unit 2818

THONG LET.
PRIMARY EXAMINER